

Yasuji MORIMOTO: Notes on rust fungi of Japan (2)

森 本 泰 二*: 日本産錆菌雑記 (2)

8. **Puccinia obscure** Schröt. ex Pass. Nuovo Giorn. Bot. Ital. 9: 256, 1877.

Occasionally the uredosorus contains paraphyses, nearly linear-clavate throughout, $50-70 \times 3-5 \mu$, colorless, uredospores $20-25 \times 12-22 \mu$, wall $1.5-3 \mu$ thick, coarsely echinulate, pores 2 equatorial.

Hab. II. On *Luzula plumosa* (Nukaboshi-so), Yoshida-cho, T-gun, Pref. H. (Jun. 4, 1959 Y.M.); no paraphyses, uredospores $20-32 \times 17-22 \mu$, pores 2 equatorial, teleutospores $27-46 \times 16-22$ (-24) μ , apex $3-10 \mu$, pedicel up to 25μ , brownish yellow, mesospores $25-32 \times 17-20.5 \mu$ inmixed.

Hab. II. III. On *Luzula Campestris* var. *capitate* (Suzumeno-yari), Miyoshi-city, F-gun, Pref. H. (July 4, 1959, Y.M.)

9. **Puccinia coronata** Corda in all possibility Fig. 1. Icon Fung. 1: 6, 1837.

Uredospores $20-32(-34) \times 15-25(-27) \mu$, paraphyses $60-80 \times 10-15(13-22) \mu$, clavate-capitate, curved.

Hab. II. On *Festuca parviflora* (Toboshigara), Kami-irie, Pref. H. (May 7, May 20, 1959, Y.M.), Yoshida-cho (Aug. 20, 1959, Y.M.), *Festuca parviflora* is a new host plant for this fungus.

10. **Puccinia Schedonnardi** Kell. et Sw. in Jour. Myc. N. P. 95, 1888.

Paraphyses present, linear-clavate, short, a few.

Hab. II. On *Muehlenbergia hakonensis* (Tachi-nezumi-gaya), Shosen-Kyo, Pref. Yamanashi, (Nov. 1, 1958, Y.M.).

Uredospores $19-33 \times 15-24(-27) \mu$, teleutospores $21-34 \times 17-20.5 \mu$ (measuring spores a little), paraphyses present, linear-clavate, short.

Hab. II. III. On *Muehlenbergia Huegelli* (O-nezumi-gaya), Shosen-Kyo Pref. Yamanashi (Nov. 1, 1958, Y.M.).

Paraphyses present, teleutosorus a few.

Hab. II. III. On *Muehlenbergia japonica* (Nezumi-gaya), Mt. Hiba-yama, H-gun, Pref. H. (Aug. 28, 1958; Oct. 4, 1959, Y.M.), *Muehlenbergia hakonensis*, M. *Huegelli* & *M. japonica* are new hosts for this fungus.

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The following abbreviations are used for names of places fungi were collected.

Pref. H.=(Pref. Hiroshima), T-gun=(Takata-gun), F-gun=(Futami-gun), A-gun=(Asa-gun), Y-gun=(Yamagata-gun), H-gun=(Hiba-gun), S-gun=(Saiki-gun).

Y.M.=collector Yasuji Morimoto.

11. **Puccinia Taganesuge** Miura fig. 2, 3, in S. Ito & Homma.

Trans. Sapporo Nat. Hist. Soc. 15: 125, 1938.

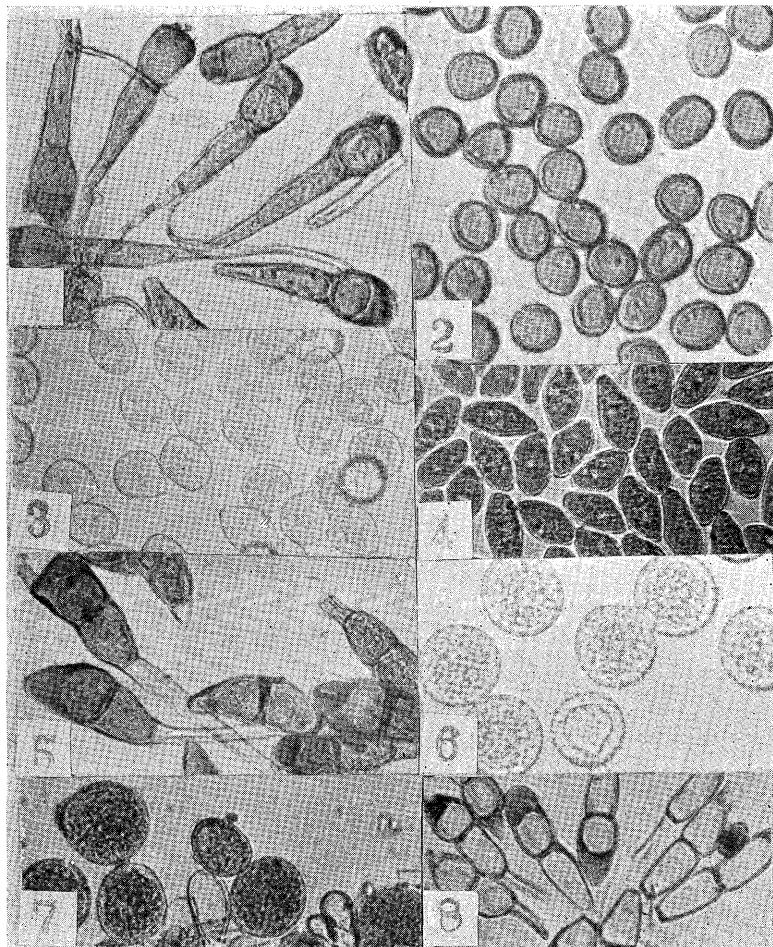
Generally the uredosorus of *Puccinia Taganesuge* contains two forms of uredo-

Fig. (1~8)×400. 1. Teleutospores of *Pucc. Caricis-dimorpholepis* Y.M., Oct. 5, '59; 2. Uredospores of *Pucc. Caricis-dimorpholepis* Y.M., Tsutsuga-mura, Pref. H., Aug. 21, '59; 3. *Uredo sunilecola* Y.M., Kami-irie, Jun. 28, '59; 4. *Uredo tyoensis* H. J. et yosh. Mt. Kammuriyama, Pref. H., Nov. 9, '39; 5. Teleutospores of *Pucc. Taganesuge* neno-tani, Sept. 28, '58; 6. Uredospores of *Pucc. Taganesuge* on *Carex dimorpholepis*, neno tani, Sept. 28, '58; 7. *Pucc. coronata* on *Festuca parvifluma*; 8. *Pucc. yokotensis*, Koda-cho, Dec. 7, '59.

spore, the one with thick wall 5 μ thick, colorless (hyaline), globose, ovate, ellipsoidal, (19-)22-29(-31) \times 19-23(-24) μ , coarsely echinulate; the other with thin wall 3.5 μ thick, pale yellowish brown (subhyaline) globose, ovate, ellipsoidal (22-)31-34(-38) \times 22-31 μ , echinulate; germ pore both obscure, paraphyses present. Teleutospores mostly epiphyllus, teleutospores oblong, ellipsoidal; truncate, round, conical 10-17(-20) μ above; slightly narrowed below, smooth, brown or chestnut-brown, 33-(56-)60(-65) \times (11)15(-20)-(22-)25(-27) μ ; pedicel colorless or pale brownish, persistent, 40-77 μ long.

Hab. II. III. On *Carex dimorpholepis* (Azenaruco-suge), Neno-tani, Neno-mura, T-gun, Pref. H. (Sept. 28, 1958; Aug. 20, 1959, Y.M.); Kami-irie (Aug. 17, Sept. 24, 1959, Y.M.), Takanosu-yama, Hogaki, T-gun, (Aug. 26, 1959, Y.M.), Shio-machi, F-gun, Pref. H. (Sept. 16, 1959).

Hab. II. III. On *Carex* sp. (*Carex Royleana*?), Mt. Hibayama, H-gun, Pref. H. (Oct. 4, 1959, Y.M.).

Carex dimorpholepis is a new host plant for this fungus.

12. **Puccinia yokotensis** Miura fig. 4, 5, Sydow, Ann. Myc. 11: 104, 1913.

Uredospores ovate, ellipsoidal or ellipsoidal with somewhat angular, (19-)22-(26-)27(-28) \times 15-(17-)20(-21) μ , wall 2-3 μ thick, brown; pores 2 on the uredospore. Teleutospores oblong, cylindric or clavate; round, truncate, obtuse 8-15 μ above, narrowed below, 29-(51-)54(-60) \times 10-17(-19) μ , slightly or moderately constricted at septum; smooth, pedicel 40-60 μ long, 2 septum spores intermixed.

Hab. II. III. On *Carex* sp. (*Carex dispalata*?), Mt. Hikosan, Tagawa-gun, Pref. Fukuoka, Kyushu.

Hab. II. III. On *Carex* sp. (*Carex conica*) Mt. Hikosan, Tagawa-gun, Pref. Fukuoka, Kyushu, (Oct. 9 & 10, 1939, Y.M.).

Hab. III. (include II Spores) II. On *Carex conica* (Hime-kansuge,) Koda-cho, T-gun, Pref. H. (Dec. 7, 1959, Y.M.), Yoshida-cho (Jan. 8, 1960, Y.M.), Tanpi (Jan. 21, 1960, Y.M.), Mt. Takanosu (Feb. 14, 1960, Y.M.).

The present species is new to Kyushu.

13. **Puccinia Caricis-dimorpholepis** Y. Morimoto, Nov. spec. fig- 6, 7.

Soris uredosporiferis hypophyllis, sparsis vel aggregatis, minutis rotundatis 0.2-0.3 mm diam., nudis, brunneis vel castaneobrunneis, pulverulentis; uredosporis globosis, subglobosis, 17-23(-25) \times 10-17 μ , episporio 1.5-2 μ crasso, brunneis, echinulatis; poris germinationis plerumque 2 subaequatorialibus instructis. Soris teleutosporiferis amphigenis, plerumque epiphyllis, sparsis vel aggregatis, minutis, rotundatis,

ellipsoideis, 0.3—1 mm diam., primo epidermide tectis, dein nudis, pulvinatis, compactis, atris; teleutosporis oblongis, clavatis, apice rotundatis, truncatis vel conoideis, valde incrassatis 8—14 μ , medio leniter vel modice constrictis, basi attenuatis, levibus, brunneis vel castaneo-brunneis, 34—60 (69—77) \times 9—17 (—19) μ , pedicello persistenti, hyalinis vel pallide brunneo, 40—60 (—77) μ longo. 2 septatis sporis immixtis.

Hab. II. III. On *Carex dimorpholepis* (Azenaruko-suge), Tsutsuga-mura, Y-gun, Pref. H. (Nov. 24, 1957; Aug. 21 & Oct. 5, 1959, Y.M. type!).

The present species resembles to *Fuccinia yokogurae* P. Henn. as to the pores situation subequatorial 2 in uredospores, from which it differs in having smaller uredospores and in having narrower, more slender teleutospores. Further more it resembles closely to *Fuccinia yokotensis* Miura as to the shape and size of teleutospores, from which it differs in having subequatorial pores 2 compared with the latter species pores 2 at the lowest part of the uredospores.

14. **Puccinia Caricis-trichostylis** Dietel in Bot. Jahrb. 34: 584, 1905.

Uredospores 24—39 \times 24—30 μ , wall 2—4 μ , colorless or pale yellowish, echinulate, pores obscure, occasionally pedicel 17—25 μ long. Teleutospores (19—) 26—43 (—46) \times 14—22 (—24) μ , round, obtuse, truncated, 3—6 (7) μ above, mostly rounded below pedicel 17—50 μ long.

Hab. II. III. On *Carex dimorpholepis*, Kami-irie (Aug. 14, 1959), Hisua Yoshida-cho, Pref. H. (Nov. 22, 1959, Y.M.).

The present species is new to Honshu. *Carex dimorpholepis* is a new host for this fungus.

15. **Uredo iyoensis** Hiratsuka f. et Yoshinaga fig. 8 Mem. Tottori Agr. Coll. 3: 334, 1935.

Speros (15.6—) 18—29 \times (8.4—) 12—15 (—17) μ .

Hab. On *Viola vaginata* (Sumire-saishin), Mt. Kanmuri, S-gun, Pref. H. (Nov. 9, 1939, Y.M.), Mt. Hiba-yama, H-gun (Aug. 28, 1958, Oct. 4, 1959, Y.M.).

16. **Uredo sumirecola** Y. Morimoto Nov. spec. fig. 9.

Soris hypophyllis, minutis 0.1—0.3 mm diam. flavidis vel flavo-brunneis, diutius epidermide tectis, semi-tectis vel dein fissa cinctis, pulverulentis, dilute flavidis, sine paraphysibus; sporis globosis, subglobosis, obovatis, (14—) 17—24 (—25) \times 14—17 (—18) μ episporio levibus.

Hab. On *Viola okuboi* (Kemaruba-sumire), Kami-irie, (Jun. 28, 1959, Y.M. type!). On *Viola grypoceras* (Tachitsubo-sumire), Miyoshi-city, F-gun, Pref. H. (Jun., 41959, Y.M.).

The present species resembles to *Uredo iyoensis* Hirats. F. et Yosh., from which it differs in having not ellipsoidal but globose or subglobose spores.

The type specimens of new fungi described in this note are deposited in the Herbarium of the Faculty of Agriculture of Yamaguchi University.

○ヒロツヤゴケ *Entodon Challengeri* の著者名は Paris ではない (水島 うらら) Urara MIZUSHIMA : On the author name of *Entodon Challengeri*

本邦の平地から山足にかけて普通に見られるヒロツヤゴケ (ヒロハツヤゴケ 桜井) の学名は今日まで多くの人々によつて *Entodon Challengeri* Paris が用いられて來たが 桜井久一博士著 “日本の蘚類” 149 (1954) を見ると *E. Challengeri* (Paris) Card. と成つてゐる。抑もヒロツヤゴケを最初に記載したのは Mitten で、1891年に *Entodon abbreviatus* Mitten の名を与えたが、この種名は既にメキシコ産の別種に与えられていて用いられない。そこで Paris が *Index Bryologicus* ed. 2, 2 : 129 (Aug. 1904) で *E. Challengeri* Paris の名を新譲したという解説の下にこの名が用いられるに至つたのである。其の時 Paris は basionym を引用しなかつたが、これに先立ち *Index Bryol.* の初版 (1894) で *Cylindrothecium Challengeri* Paris を発表し、*E. abbreviatus* Mitt. をその異名としている。ところが Paris が *Index* の2版を出版した同じ 1904 年に Cardot が *Premier contribution à la flore bryologique de la Corée* を *Beihefte zum Botanischen Centralblatt* 17 : 32 に発表し、その中で *Entodon abbreviatus* Mitt. 及び *Cylindrothecium Challengeri* Paris を異名に引いて *E. Challengeri* (Par.) Card. の組合せを作つてゐる。この Cardot の発表が同年の何月であるかはつきりしないが、1904年7月15日発行の *Hedwigia* 誌上に *Beihefte* 17巻が記録されている事から、その32頁が7月以前の出版である事は明かである。従つてヒロツヤゴケの学名は桜井博士が採択されたように *E. Challengeri* (Par.) Card. を用いねばならない。

The author name of *Entodon Challengeri* has been attributed to Paris (*Ind. Bryol.* ed. 2, 2 : 129 (1904) by Japanese muscologists. But this is corrected as *E. Challengeri* (Par.) Cardot as has been done by Dr. K. SAKURAI (*Muscol. Jap.* 149, 1954 with unclear citation of synonymy) as follows:

Entodon Challengeri (Paris) Cardot in *Beiheft. Bot. Centralbl.* 17 : 32 (ante Juli 1904)

syn—*E. abbreviatus* Mitt. in *Trans. Linn. Soc. ser. 2, bot.* 3 : 179 (1891)

—*Cylindrothecium Challengeri* Par., *Ind. Bryol.* ed. 1 : 296 (1894)

—*E. Challengeri* Par., *Ind. Bryol.* ed. 2, 2 : 129 (Aug. 1904)

My warm gratitude is hereby expressed to Dr. H. W. RICKETT of the New York Botanical Garden for his kind information about the date of issue of Cardot's paper.